

Claims

1. A computer system having a business system, a commercial service system, and a terminal, comprising:

5 a terminal that sends a request for the use of said commercial service system to said business system when a user who logs in said business system uses said commercial service system; and

10 a business system that receives the request of use, checks a commercial service use authority of said user, selects a password from a password list created prior to authentication, and returns it to said terminal,

wherein said terminal sends the returned password to said commercial service system; and

15 said commercial service system compares the password with accounting information created prior to the authentication, permits login when they match, and nullifies the used password.

20 2. The computer system according to claim 1, wherein said business system generates said password list using a random number, sends said password list to said commercial service system, and creates accounting information.

25 3. The computer system according to claim 1, wherein said commercial service system generates said accounting information using a random number, sends said accounting information to said

business system, and creates said password list.

4. The computer system according to claim 1, wherein said business system comprises a means for generating said password list using a value to which an optional numerical value and a one-way function were applied sequentially, sending the applicable number of times of said one-way function and a numerical value of a sequentially applied final result to said commercial service system, and creating said accounting information, and

a means for returning a password and the applicable number of times of said one-way function to said terminal when use of a commercial service system is requested from said terminal, comparing a result in which said one-way function was applied to said password sent from said terminal only for a part in which the applicable number of times of said one-way function for said password was subtracted from the applicable number of times of said final result, with the numerical value of said final result in said accounting information when login permission in the commercial service system is decided, and permitting login if they match.

5. The computer system according to claim 4, wherein said commercial service system comprises a means for retaining the numerical value of the sequentially applied result when the login

permission in said commercial service system is decided and applying it to the result in which the numerical value was retained only for the part in which the applicable number of times of said one-way function of the retained result was subtracted from the applicable number of times of said one-way function of a deciding password.